Ethernet Extender

Connect Ethernet LAN segments at 16.67 Mbps across ordinary CAT3 cables.

FEATURES

» Break Ethernet distance limitations and extend your Ethernet network one mile (1.6 km) at speeds up to 16.67 Mbps.

» Operates across any 2-wire unconditioned 24 AWG cable—even phone cables!

» Transparent, plug-and-play operation.

» Switch-selectable symmetric or asymmetric operation.

» Supports half- or full-duplex Ethernet.

» Autosensing 10-/100-Mbps Ethernet ports adapt to your network speeds.

OVERVIEW

Extend Ethernet at high speeds over existing copper wire with the Ethernet Extender.

It provides up to 16.67 Mbps of high-speed Ethernet services between LANs or other network-enabled devices over a single twisted-pair cable. You'll receive two boxes: one is configured as the customer premise line driver, the other as the central office line driver.

This variable-rate standalone line driver lets you select various asymmetrical and symmetrical rates to satisfy a broad range of applications. Typical uses in symmetrical mode include videoconferencing, interactive video, and telecommuting. Asymmetrical mode is used primarily for delivering Internet service.

It operates over a twisted-pair phone cable you already have installed, so you won't have to recable with CAT5e or fiber cable.

It's easy to install, too. Simply plug and play, and use the handy DIP switches to select mode and speed.

The LB200A-R2 is ideal for transferring data at high speeds. Use it when you don't need to have a voice connection along with your data connection passed over your 2-wire, 24 AWG unconditioned line.

This extender must be used in pairs and require one unit for the local site (or central office) and one unit for the remote site (customer premise) for proper operation.

If you want to take your network connection farther and faster over existing copper and eliminate the expense of fiber, choose this Ethernet Extender.

NOTE: The Ethernet Extender does not require you to order DSL service from the phone company. Instead, they use DSL technology over your existing installed copper wire.

TECH SPECS

Clocking — Internal, external, or receive recover
Distance and Speed (Maximum) — See Buyer's Guide, below
Environmental — Temperature: 32 to 122° F
 (0 to 50° C);
 Humidity: 5–90% noncondensing
Ethernet Standard — IEEE 802.3: 10BASE-T;
 IEEE 802.3u: 100BASE-TX
Format — Sync or async, switch selectable
Media Type — UTP cable, 1-pair, voice grade or better
Operation — Point-to-point, synchronous or ansynchronous; half- or full-duplex
Protocols — vDSL
Surge Supression — 20 kA (8/20ms) gas tube
CE Approval — Yes
RoHS — Yes
Connectors — (2) RJ-45
Indicators — (5) LEDs: Power, DSL Link, Error, Ethernet Link, Activity
Power — External power supply: autosensing
 120/250 VAC, 50/60 Hz, 5 watts maximum
Size — 1.6"H x 4.1"W x 6"D (4.1 x 10.4 x 15.2 cm)
Weight — 2.2 lb. (1 kg)

Speed/Distance | for VDSL—Asymmetric

Line Rates		Distance
Upstream	Downstream	
1.56 Mbps	4.17 Mbps	6000 ft. (1828.8 m)
1.56 Mbps	9.38 Mbps	5500 ft. (1676.4 m)
2.34 Mbps	16.67 Mbps	5000 ft. (1524 m)

Speed/Distance | for VDSL—Symmetric

Line Rates		Distance
Upstream	Downstream	
6.25 Mbps	6.25 Mbps	4500 ft. (1371.6 m)
9.38 Mbps	9.38 Mbps	4150 ft. (1264.9 m)
12.50 Mbps	12.50 Mbps	4000 ft. (1219.2 m)
16.67 Mbps	16.67 Mbps	3300 ft. (1005.8 m)

Item	Code
Ethernet Extenders	
Data Only	**LB200A-R2**

✦ *When you order, you get two boxes: (1) for Customer Premise and (1) for Central Office.*

You might also need…

CAT5 100-MHz Patch Cables, 24 AWG, RJ-45, 4-Pair, PVC, T568B, Straight-Pinned	**EVNSL07**
CAT5 100-MHz Bulk Cables, 24 AWG, 2-Pair, Beige, PVC	**EYN717A**